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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	-
10/528,483	03/22/2005		Faissal Abdel-Hady	2A09.1-111	8463	
23506	7590	03/17/2006		EXA	MINER	-
GARDNER 2018 POWER			& GREENWALD, P.C.	LAM, THANH		
SUITE 800	.5 1 2141	· RO/ID	•	ART UNIT	PAPER NUMBER	-
ATLANTA,	GA 303	39		2834		

DATE MAILED: 03/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/528,483	ABDEL-HADY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thanh Lam	2834				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 Ja	Responsive to communication(s) filed on <u>10 January 2006</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for alloward	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 13-20 is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
Paper No(s)/Mail Date		ratent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-12 in the reply filed on 1/10/2006 is acknowledged. The traversal is on the ground(s) that the Examiner would not be seriously burned by examination of the claims of Groups I, II and III together. The inventions defined by various claims within Groups I, II and III are significantly interrelated. This is not found persuasive because Group I is an apparatus defined as a final product that is distinct with Groups II, which is a process or method, and Group III is a computer programming or coding. Thus, the product, method and coding are clearly distinct with each other. The Application is claiming a multiple inventions have a difference classification, which require a multiple search.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. The drawings of figures 2-14 are objected to under 37 CFR 1.83(a) because they fail to show numerals on figures 2-14 as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be

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removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: in the specification, paragraph. 0026, the numeral 11 indicated for permanent magnet, it should be indicated for coils instead.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1,3-12 rejected under 35 U.S.C. 102(b) as being anticipated by Nichols et al. (US 6049148).

Regarding claim 1, Nichols et al. disclose a magnetic elevation system comprising: a stator assembly having a permanent magnet assembly (38) secured thereto, the stator assembly being substantially cylindrical in shape; a support assembly configured to support a metallic device (18) that is to be magnetically elevated, the permanent magnet assembly providing a magnetic force that is exerted on said metallic device in at least a first direction (radial forces of the metallic device); an electromagnetic coil assembly (42) capable of generating a magnetic force that is exerted on said metallic device in at least a second direction (rotation or torque of metallic device); and a feedback control system (54) configured to detect displacement (unbalance of the metallic device) of said metallic device in at least the first and second directions and to cause the magnetic force being generated by the electromagnetic coil assembly to be varied to correct displacement of said metallic device.

Regarding claim 3, Nichols et al. disclose the permanent magnet assembly generates a magnetic force that is exerted on the metallic device in a Z direction (radial force) and wherein the electromagnetic coil assembly generates a magnetic force lat is exerted on the metallic device in X and Y directions, the X and Y directions (rotation force) being transverse to each other and transverse to the Z direction.

Regarding claim 4, Nichols et al. disclose the feedback control system includes at least two inductive displacement sensors (48,50,52) that detect the displacement of the metallic device and generate respective output signals having values relating to amount and direction of displacement of the metallic device.

Regarding claim 5, Nichols et al. disclose the electromagnetic coil assembly comprises two sets of electromagnetic coils, the two sets of electromagnetic coils having the stator assembly and said metallic device disposed between them.

Regarding claim 6, Nichols et al. disclose each set of electromagnetic coils comprises four electromagnetic coils.

Regarding claim 11, Nichols et al. disclose first and second flux plates (36) having the stator assembly, said metallic device, the support assembly and the electromagnetic coil assembly disposed between them.

Regarding claim 12, Nichols et al. disclose comprising third and fourth flux plates having the first and second flux plates, the stator assembly, said metallic device, the support assembly and the electromagnetic coil assembly disposed between them.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 2,8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nichols et al. in view of Koltze et al.

Regarding claim 2, Nichols et al. disclose all the aspect of the claimed invention except for the metallic device is used for the system is a ring-spinning system for making yarn.

Koltze et al. disclose the metallic device (39) is used for the system is a ringspinning system for making yarn (see abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the metallic device of Nichols et al. to accommodate the metallic device as taught by Koltze et al. in order to satisfy the choice of design.

Regarding claim 7, the proposal in combination of Nichols and Koltze disclose a first non-magnetic annular disk disposed on said metallic device and a permanent magnet secured to the non-magnetic spacer.

Regarding claim 8, the proposal in combination of Nichols and Koltze disclose a second non-magnetic annular disk disposed on the support assembly and a permanent magnetic secured to the second non-magnetic annular disk.

Regarding claim 9, the proposal in combination of Nichols and Koltze disclose a non-magnetic spacer disposed on said metallic device.

Regarding claim 10, the proposal in combination of Nichols and Koltze disclose a non-magnetic spacer disposed on the stator assembly adjacent the non-magnetic spacer disposed on said metallic device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (571) 272-2026. The examiner can normally be reached on tu-th 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

Thanh Lam
Primary Examiner
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